

MARKED UP VERSION TO SHOW CHANGES MADE

1. A printed circuit board (PCB) assembly comprising:

a multi-layer printed circuit board substrate having a side edge, first and second opposite surfaces, a first edge portion and signal and ground conductors; including a ground layer therein;

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a conductive channel enclosing said side edge, said channel being electrically connected to said ground conductor to provide electromagnetic shielding of said side edge; and

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a plate within said channel substantially parallel to said first surface, and means for moving said plate toward said first surface such that said plate and an opposite surface of said channel engage said printed circuit board about said side edge, said plate being electrically connected to said ground conductor. substantially U-shaped device secured to said PCB to provide a cover for said first edge portion; and

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~~connection means for electrically coupling said substantially U-shaped device to said ground layer within said substrate, said substantially U-shaped device substantially preventing electromagnetic radiation from being emitted from said first edge portion.~~

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2. The PCB of claim 1 wherein said a cross-section of said channel in a plane perpendicular to said first and second surfaces and said side edge is substantially U-shaped device is flexible.

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3. The PCB of claim 1 wherein said moving means comprise an adjustment screw which engages said plate. substantially U-shaped device comprises first and second substantially L-shaped parts.

4. The PCB of claim 3 wherein said adjustment screw is mounted in a threaded bore in said channel perpendicular to said plate. one of said L-shaped parts includes a cavity therein and the other of said L-shaped parts is movably positioned within said cavity.

5. The PCB of claim 3 wherein said adjustment screw is mounted in a threaded bore in said channel parallel to said plate. one of said L-shaped parts includes a cavity therein and the other of said L-shaped parts includes a compressible projecting part adapted for being compressibly retained within said cavity.

10 6. The PCB of claim 1 wherein said channel includes pins perpendicular to said first surface to mount in conductive holes in said printed circuit board to electrically connect said channel to said ground conductor. substantially U-shaped device is of unitary construction.

15 7. A printed circuit board (PCB) comprising:

a substrate having a first edge portion and including a ground layer therein;

a substantially U-shaped device secured to said PCB to provide a cover for said first edge portion; and

connection means for electrically coupling said substantially U-shaped device to said ground layer within said substrate, said substantially U-shaped device substantially preventing electromagnetic radiation from being emitted from said first edge portion; and wherein said substantially U-shaped device is of unitary construction; and further comprising

20 The PCB of claim 6 further including at least one conductive plate movably positioned within said substantially U-shaped device to be electrically coupled to said ground layer within said PCB.

11. A printed circuit board (PCB) comprising:

a substrate having a first edge portion and including a ground layer therein;

a substantially U-shaped device secured to said PCB to provide a cover for said first edge portion; and

5 connection means for electrically coupling said substantially U-shaped device to said ground layer within said substrate, said substantially U-shaped device substantially preventing electromagnetic radiation from being emitted from said first edge portion;  
and The PCB of claim 1 wherein said PCB further includes electrically conductive vias or plated through holes (PTHs) as part thereof and coupled to said ground layer, said connection means including a plurality of projecting pins adapted for electrically contacting said conductive vias or said PTHs when said substantially U-shaped device is secured to said PCB.

10 13. The *PCB invention* of claim 1 wherein said PCB is adapted for being positioned within a rack or chassis, said PCB including means for electrically coupling said substantially U-shaped device to said rack or chassis.

15 14. The *PCB invention* of claim 13 wherein said means for electrically coupling said substantially U-shaped device to said rack or chassis comprises a projecting ledge, said projecting ledge adapted for slidably engaging said rack or chassis.

20 15. The *PCB invention* of claim 14 wherein said projecting ledge is electrically coupled to said connection means.